Inside...

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23.  New AM Log

From the Publisher... Bridgeport '91 was great fun for those who attended, thanks to the hospitality of Bill, Brenda, and Eru Swiger. We're expecting a convention write-up from the peripatetic John Malekcy in time for the next issue, and we also have some photos, space permitting. Our thanks to Bill and family for being such excellent hosts! Next year... plan to trek to Iowa (tentatively Des Moines) for the NRC convention, to be hosted by Rick Dau and his recruits.

GTY's... If you want a preview, Rick is hosting the 2nd annual HADX (Hawkeye Annual DX) GTO on Oct. 25-26 in Sioux City at the Howard Johnson's Motor Lodge (712) 277-9400 for reservations, starting at 3 pm Friday. Rick's planning station tours and Saturday morning door prizes. For more information, call Rick at (319) 338-3450.

Ray Arruda's long-running "Lower Deck" GTO will be held November 30 at 47 Burn Street, Acushnet, MA, starting around noon; all DXers are welcome.

Bruce Conk sent word of the Audio Engineering Society Convention October 4-8, at the NYC Hilton. Included are various seminars and a tour of WQXR's new facilities. For more info, call the AES at (212) 661-8528.

Target DX... And speaking of Bruce (don't you love these segue's?), he is now officially the "Target DX" column editor. You can send ideas for "Target DX"ing at 34 Kessler Farm Drive, Apt. 566, Nashotah, WI 53053-7144.

They joined... Tami Bryant, Nashville, TN; Jerry Byers, Topeka, KS; James Fodor, Brewerton, NY; Peter Giacomelli, KB2DY, Massapequa, NY; Ray Jackson, Fayetteville, TN; Paul LaFreniere, Grand Marais, MN; Howard Mortimer, WB2ZWI, Baldwinsville, NY; and Dave Rogers, W4ZYQ, St. Marys, OH. My apologies also for misspelling new LA member Al Buckalew's name recently.

Publication requirements... For those of you who regularly send in passed-up columns, please remember to leave two inches of space at the top for the column header, which is an inch and a half deep. Also, the normal column width is 3.75". If you type up material that doesn't fit that width (such as QYDXA), the full-page column width is 8". If your printer won't handle these widths, just send a 3.5" MS-DOS disk (ASCII text files only), a Comodore 64 ASCII file (or a 5.25" disk), Appleworks or Apple ASCII (or even 3.5" or 5.25" disks), or any Macintosh text file on a 3.5 disk and we'll format it here. At the moment, we do not have access to equipment which will convert files from other computers (such as 5.25" MS-DOS), so if any member would be able to do such conversions from other formats on an occasional basis, please get in touch with the publisher. I also could use some help in tying up occasional contributions in the convertible formats - 3.5" ASCII MS-DOS, any Macintosh, C-64, or Apple.

DXChange... No bids have been received yet for the old WREN equipment from the last DXN. I may acquire them and offer them at the next NRC auction; (none guaranteed to work) (for local pickup only). 5-tube Newcomb AM receiver, 4 Utah 10" speakers in wooden cabinets; Hallicrafters CRX-1 FM (30-50 mHz) rx; two Gates amps (I think); M-360R, with tubes; RCA CC-20A control; Spotmaster 500 AR rackmount player/recorder; Harris Cartridge II; Gates MS546A Level Devi; Magnatronic, MCA 100H, GE phone/make pre-amp, UPH-003B, 4 watts, 4 Aiphone handsets and adapters, a 12-tone phone switcher, and an Ampex 620 PA amp - speaker. Send your bids for any or all pieces to the publisher; all monies/donations will go directly to the nonprofit KJTY, who now owns the facilities of WREN.

Partial DXN Schedule, Volume 59

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DX Time Machine

From the pages of DX News
50 years ago... from the Sept. 6, 1941 DXN: The NRC Convention at Buffalo, NY, was attended by 42 members and friends. A donation was taken to send gifts to the two NRC members in the Army, Merlin Steen and Bill Stone. From the Sept. 20 DXN: DX programs for the NRC were to be broadcast in October from HJAP-1370, HJAR-1400, and PRE9-1320, as arranged by Steve Mann.

25 years ago... from the Sept. 17, 1996 DXN: John Callahan stepped into the position of Executive Secretary, with Gordon Nelson taking over the IDXD editorship from Joka.


THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB
CALL LETTER CHANGES

620 *New NV Winchester KZTY
630 KOWB MN St. Paul WGQY
650 *New OR Junction City KZTU
700 KGJI CA Solad KSLR
730 WDKT AL Madison WKPW
740 KISZ CO Cortez KVFC
800 KNIX UT Brigham City KSOS
860 *New OR Eugene KZTG
*New OR Troutdale KZTW
910 WTXN AL Pepperell WDKK
930 WRCW WV Huntington WTKZ
960 WFGC LA Fitchburg WFGO
1050 WRBK FL Cantonment WJBM
1110 KKLC LA Pineville KTLD
1140 OISS AB Calgary CKFX
1150 WORC SC Orangeburg WJZS
1160 KFHM TX San Antonio KVAR
1180 KDAN AZ Williams KYET *
1200 WYRA NY North Syracuse WNSS
1230 KAHU AZ Phoenix KISP
1260 WJOT SC Lake City WVLG
1270 KZZX NM Alamogordo KVNN
1290 KESP CA Santa Barbara KRRB
1370 WNNY SC Ellwood WORG
1390 WCGE SC Charleston WXTC
1400 WKDY SC Spartanburg WYHR
1410 KGIV MN Litchfield KLFH *
1440 WFTQ MA Worcester WVEI
1490 WDBX TN Chattanooga WJOC
1550 KITH CA Apple Valley KAPL
1570 WHPL TN Centerville WHXX

Notes on calls: 1180 KDAN request for KTRAN was set aside and never used. Likewise, KGIV-1410 request for KLNC was set aside and they instead are asking for KLFD.

APPLICATIONS FOR NEW STATIONS

None

GRANTS FOR NEW STATIONS

1100 AZ Cave Creek: 25000/1000 U4 (see last issue)

APPLICATIONS FROM EXISTING FACILITIES

936 KSAM MP Salinas: reduce power to 5000 watts (this is for all the foreign DXers who read AMS, and yes this frequency is correct)
1040 KCBR CO Monument: reduce power to 1900 watts
1100 KZPM CA Bakersfield: reduce day power to 5000 watts, antenna to U2

1400 KAOK WA Lake Charles: reduce powers to 900/900 watts
1430 WXCM VA Gloucester: reduce power to 740 watts
1500 WGNX NC Winston-Salem: reduce power to 1000 watts

GRANTS TO EXISTING FACILITIES

970 WEVE MA Southbridge: reduce day power to 500 watts, add 500 watts nights, antenna to U3
1130 KBMR ND Bismarck: changes in antenna system
1200 WAGE VA Leesburg: day power to 10000 watts
1240 WULA AL Eufaula: reduce powers to 600/600 watts

OTHERNESS

610 KYUC OR Medford: briefly silent, is now ON THE AIR
710 KNUS CO Denver: application for 9000 watts day power has been rescinded
740 WLVG MA Cambridge: silent station is ON THE AIR (one of our info sources has begun listing this station in Needham, MA but according to the station they are still) in Cambridge and 1D only as "Cambridge-Boston"
780 QFDR NS Dartmouth: station is now here ex-790 kHz
820 WXJZ IL Chicago: silent station set to return 9/91
830 KBUC TX Cibolo: station is SILENT
880 KWMP OR Dallas: silent station is ON THE AIR
910 WQIZ TN Columbia: silent as WCMG, is now ON THE AIR
1010 KDAL LA De Ridder: station is SILENT
1190 KJLA MO Kansas City: silent station is ON THE AIR as Mayor Cleaver pulled the ceremonial switch on B-29, had been off since 6-90
1230 WFOA GA Marietta: station is SILENT
1260 WJLW LA Baton Rouge: station is SILENT
1290 KKSJ CA Santa Barbara: silent as KESB, is ON THE AIR
1310 KGSA PA Ephrata: silent station returned to the air briefly relaying WAGO-1240 in Reading but went SILENT again in May
1360 KDXI LA Mansfield: station is SILENT
1400 WNYR SC Spartanburg: silent as WKYD since 1988, should be ON THE AIR by the time this reaches you
1410 WLVR AL Mobile: silent as 8MMF is now ON THE AIR
1440 WCMK MA Westerly ex-WFFG now relays WEEI-990 Boston
1450 WDSN TN Dyersburg: silent station has being purchased by owner of WTRO-1330 in Dyersburg who will surrender his license for WTRO when the sale is complete, WTRO will be deleted so GSL it SOON!
1460 WPRW VA Manassas: silent station returned to the air for ONE DAY last month, probably to dry out the transmitter, has been SILENT ever since
1480 KTNX WA Lakewood: first, lets review. KTNX operated on 1480 Monday thru Saturday and shared 1480 with KDFL which operated Sundays only. We hope you verified this unique combination since it
is no more. KTKN is now SILENT and KD8L now operates seven days a week. We believe this arrangement in permanent.

1510 KIDZ NZ
Independence: station went SILENT 8-15-9

WKRU SC
Burrnittown: station is SILENT

1530 KGTN TX
Crandon: station is SILENT

1550 KMLE KS

Winifield: station should be ON THE AIR.

By the time this was published by the owner of KLEY-1130 Wellington, KS who was granted a waiver of the FCC rule, the station is SILENT.

KMLE and KLEY have a large overlap in coverage.

THANKS: RON MUSCO, N0I DIME, MARC DELORENZO, ALAN MERRIAM, DANA YEOMANS, ED MCDONALD and M STREET JOURNAL.

73 and Good DX, Jerry S BKF Jerry Starr & Buffalo K. Fooman

PS: It was great to see many of you at the Convention!

WNS510... by Wayne Heinen

The Colorado Department of Transportation has initiated a new TIS system in the Denver Metro area. Currently, the system includes some transmitters up and running and some testing is being done. The system is being tested by Information Station Specialists of Zecland MI and uses a digital audio message loop.

The Denver Metro TIS is modeled after CALTRAN's system of linked TIS transmitters. There are 6 separate 10 watt transmitters in the Metro area and one in operation in Pueblo. The Metro transmitters are in the following locations:

1. 1-70 @ Gunclub Rd.
2. 1-70 @ S. Pond Rd.
3. 1-70 @ Wadsworth
4. 1-25 @ Lookout Mountain
5. 1-25 @ Westwood
6. CO 36 @ Wadsworth

This system is designed to alert travelers entering the Denver Metro area of heavy road construction and possible delays as they enter the city. The intersection of I-70 and I-25, affectionately known as the "Mount Tav", is currently the big topic of discussion as it is being totally rebuilt. Other projects are affecting most of the Interstate system in Denver.

Dan Hopkins of the Colorado Department of Transportation informed me that the final plan was to have all six transmitters up and running shortly. The long-term goal is to have each transmitter programmed with the information of interest to both the in-bound and out-bound travelers at each major point. These transmitters are not a synchronous operation. Although they can be operated that way, each transmitter will be programmed with the information for the particular route. For example, the transmitter at I-25 and Lincoln Avenue will have information on the southbound condition to Colorado Springs and the information will be updated several times per hour.

The end result for local DXers is a new gray scale of traffic. "Locally" 1610 is available for TIS operations because of the high level of traffic in and out of Denver. In addition to WNS510 Denver has the 50 watt Stapleton Airport TIS and a 10 watt TIS at Cherry Creek State Recreation area. This will give us a total of three transmitters.

Reports to:
Colorado Dept of Transportation
Mr Dan Hopkins
4201 E. Arapahoe Ave
Denver, CO 80222

The 1990-91 NRC CPC Report... by Jeff Tynan

The 1990-91 NRC CPC has 33 tests arranged, of which 30 where confirmed "on" by at least one member of the NRC. A total of 266 letters were mailed by the CPC Machine for a return rate of 12.41%. In 1990-91 the NRC CPC has cost $80,000. (NRC CPC 1991-92 is $151,171.21) This is up from the 1990-91 NRC CPC of $80,000. The cost is $161,21.21 spent on letters and postage for confirmation letters and in some cases taped ID's. The carry over to 1991-92 is $18,79.

In addition to these expenses the National Radio Club treasury reimbursed the CPC Machine $543.35 for expenses to publicize DX Tests through "Monitoring Times" and Glenn Hauser's "World of Radio" and for numerous follow-up phone calls to set up the last-minute tests.

Please note that Jeff Tynan has volunteered to chair up the Courtesy Program Committee. Jeff has done most of the work on the program this past year and I know he'll continue to work very hard to continue the CPC Program's tradition of having a continuing active CPC program. I have enjoyed my involvement with bringing the CPC Program back to the standards that we enjoyed in the 1960's and will continue with some behind-the-scenes work. I would like to thank all who have supported the CPC with stamps, money and target lists, and I have truly enjoyed the compliments and encouragement of my fellow NRCers.

Please send all contributions and target lists to Jeff Tynan - 10539 Severance Dr -- Parker, CO 80134-5904. 73 Wayne Heinen

Domestic DX Digest - East

MEDIUM WAVE RAMBLINGS

1. Let's all welcome new NRCer Tony Bernhoffer of Toledo, Ohio, whose loggings appear in this issue for the first time. Thanks for your letter, Tony. And here's hoping we hear more from your DX vantage point in the Buckeye State. A Big "hello" to Jack Horner of Lancaster, PA, who recently joined the NRC after an absence of 52 years. He comments that things aren't like they were in the 30s. I guess not. Especially pen and pencil, this. Welcome Back, Jack. Hope to hear more of your DX catches from Pennsylvania Dutch country. Betcha your friends call you "Little Jack Horner", huh? And I want to extend a special "Thank You" to Charles Reh of Leamington, Ontario. Chuck has reported in every issue for the past two years! Plus there were reports from him in the issues preceding Volume 57, but we weren't counting them. Keep 'em coming Chuck. Even with the current Canadian postal strike, the Leamington Loggings get through.

2. While visiting the Maine coast, Dave Evans heard WLAM-1470 Lewiston and WLAM-870 Gorham simulcasting. Dave speculated that 870 is the repeater as 1470 has been around for ages. Both transmit in stereo with seemingly narrow North-South patterns, as it's difficult to hear the other's signal when in the area of either one. Yet they are only about 40 miles apart. They use the news service from WMTW-TV Mount Washington (studios in Auburn-Lewiston) for local news. Also, Dave again uses QC as the abbreviation for Quebec, as the controversy rages on...huh. We'll continue to use the NRC "standard" of PO.

3. Now that our schedule is into the weekly mode, my deadlines are Saturday's mail.

4. Since we begin a new volume of DX News next issue, here's my yearly reminder on the guidelines for reporting to DDXD-E. Nothing fancy. Just a few rules to keep things in order and easy for me and everyone else to figure out what's going on. Real easy.

1. Use only one side of the paper.
2. Make your loggings as close as possible, like those in DX News. In fact, you can cut and paste this form.
3. Frequency, call, State/Prov, City, date, time, and what was heard, in that order. Except in the case of information news (Special category), date and time are mandatory for inclusion. And if you can't look up the city/state/call letters, I can't either.

5. Divide the loggings into the various categories, like Special, Midnight to 0800, etc. Then keep them in the frequencies in order. Then state order, and finally cities. You'll notice that's how they sort within the column.

6. Report in what we call "Eastern Listening Time". It's always the same as either Eastern Standard or Eastern Daylight, whichever is in effect. This is done for the sake of standardization.

7. Designate the time in a 24-hour clock: 8:45 AM = 0845; 11:10 PM = 2310. Midnight is 2400 if going into midnight (2345-2400), 0000 coming out of midnight (0000-0030). Central Time Zone. Remember to add a day to post-midnight ELT loggings.

8. True DX, only please. A station heard on a regular basis is not DX. Perform several scans, three or four during 1000-1400 hours, and three or four into your after-nighttime. Those stations which are regularly heard are not DX. Do not report these, unless one is noted with something out of the ordinary like a new network, different schedule, new equipment, etc. That puts them into the Special category.

9. Report your loggings in a timely manner. Those which will be older than six weeks at date of publication will be weeded out. Mail service cannot be counted on to deliver your letter mailed on Thursday to get here by my Saturday deadlines. If you only have one or two items for the column and don't want to "wear a piece of paper and an envelope", jot them on a postcard. I get lots of those. As always, special circumstances will be considered due to mail strikes, lost letters, etc.

10. Print neatly, or type. If I can't read 'em, I won't print 'em.

11. Observe all rules. In doing so, you'll make your job that much easier. Remember, you send in only one set of loggings, and many weeks I receive 25 or more letters just like yours. For complying with these requests, in advance I give you my thanks.

With football now in full swing, listen for those Friday and Saturday night high school games all over the place!

Who said MW DX takes a vacation in the Summer? Take a look...
ON BRAMPTON - brd testing here, even before CJFT leaves the channel (DTX-ON via REH-ON)

TX SAN ANTONIO - now carries Larry King 2300-0900 with repeats from 000-0500, plus Best of King on weekends (JB-TX)

TKS - back on the air; the financial troubles between owner and operator are solved...at least for now (GD-TX)

TX LAREDO - 9/1 as of today, simulcast with KVOB 93.9 and is now 24 hours a day, former slogan is "The O's in the air" (GM-TX)

TN LEBANON - 6/6 2233 OFF, probably permanent, will keep an ear on this one; they threatened to go off in January, but got a temporary shot in the arm from the FCC (DS-TN)

TN COLUMBIA - 7/11 1700 XNLT while driving through Columbia, new format as of 8/19, WCMG Lawncrsburg with black QOS format (JS-TN)

TN MARYVILLE - silence since May, they said goodbye (DS-TN) on their studio rent and building, is now a basketball card shop (DS-TN)

MO KANSAS CITY - 8/29 1917 Mayor Claytor threw the switch reactivating after lightning and flood caused silence since 9/9; now in 9 with NOC/SAZ7933, three program periods per day off satellite, probably still U2 500000 with local lobe west at night (JM-MO)

TX SAN ANTONIO - 8/18 & 8/25 0400 signed off Sunday mornings? [F] - Ed. so maybe they still have a weekly SP (SF-TN) [I dunno about these guys. I have heard Sports' Final MMs from 0600-0700 and their Sports Director, J. Clay Yandall, told me they were carried from midnight to 2 AM (local) on Monday mornings, and on Sunday mornings they carry "America on the Road" at 0600 local - Ed.]

CT HARTFORD - re: LK-ON's logging of 5/22, last I heard (JF-TX)

AL MOBILE - 9/2 0655 sign-on by male, no SSB, was silent as WMM7 back on the air (REH-ON)

IL ROCKFORD - now U5 5000 270, per letter, also [get the white-out, out, gang - hi] other Log changes are as follows: WM8999, David M. Hallow (KB9D), ABC address: Nole Communications Inc., 13012 Broderick Road/P.O. Box 6186, Rockford, IL 61102, phone: 815-359-2233 (DS-TN)

TX SAN ANTONIO - the parent company of KCHL & KMMX-FM (106.7) has filed for Chapter 11 of the U.S. Bankruptcy Code; will stay on the air while things are sorted out (JB-TX)

FL MILTON - 8/21 & 8/29 midnight with live TC and legal ID, silent station back on the air (SF-TN)

TX AUSTIN - new carries the 5PM KVUE Action News (Channel 24 Austin) (ED-TX)

TX BOERNE - off the air; seems a 4-foot Bullmane got into the transmitter, shorted out the works, and did $1500 in damage, station will be off until a new transmitter is procured (JB-TX) [a KENS-TX 5 Eyewitness News report said they'd be back on within a couple of months or so - Ed.]

AL HUNTSVILLE - although recently reported as OFF, heard on 8/10 while in Huntsville with announcement by a preacher saying that the station relied on listeners' donations, and since funds were low, the schedule was suspended (DH-AL)

TX A GRANGE - now carries the 5PM KVUE Action News (Channel 24 Austin) (ED-TX)

- 9/2 0002-0200 W/OLD/CG with no ads or ads, just mx; gone without fanfare; appeared to be east of here under/over WOF! (you mean WHAS, don't you?) (ED); any idea (JL-AR) [if you were looped B/W, it may have been KWPM West Point, NE...their old format was OLD/C&W - Ed.]

- 8/17 2140 poor w/East Indian or Mid-Eastern mx; no talk (SA-ON)

- 8/2200 WFWV - either of these may be SB-5's old 811 [Issue 29]; both towns have F/Mrs with 0 in the CL and are near 95 kHz; hope this helps you; Scott (MNH-NE)

- 7/28 2140-2210 gave time as Five minutes after six at 2105 played Indian mx, ads, news of India; faint program, I made a tape and played it until I got enough details, don't think it was Radio Canada (JF-TOH)

- 8/13 8/13 0615 fair with Business Radio ID, mx and stock market report (SA-ON)

- 8/13 0709 poor with From State football talk & ad for Rock Springs Fair (SA-ON)

- 7/1 0240-0305 very weak with occasional fades with Sports Final Talk, MBS Ns at 0000 (cuff. faded down right after the mx, where their local ad (JF-TOH) was gone); WQMR and WPAJ both in regular MGMT SP; probably WSLA, but I'd love to know the KPGM (DS-TN)

TN CLEVELAND - is doubtless Rick Dunn's unit (JF-TOH) from 12; at 12, CLEVELAND indeed has a WJ DM with a 479 telephone prefix (SF-TN)

- 8/26 0400-0500 somebody in SS, very strong dominating channel with automated (satellite-delivered) American ROK and mentions of Radio Capital voice-overs, by man with definite Latin, not Mexican or Texan accent (ED-TX)

- 8/21 0220 with test pm, quite strong under/over check, REL mx with frequent CL IDs; Testing on 50,000 daytime watts (JL-PA)

FL CYPRESS GARDENS - 8/26 0300 CL ID followed by mx, ad for Garden State Life Insurance Company; at 0500 Weather from Florida Airport (JL-PA)

VA RICHMONDS - 8/20 0215+ strong with Older Channel, PBA & local mentions; after local WCCS signs off at 2100, this mixes with WMAG/WTGTO on occasion/CBS/CBS; in out with Cuba (JL-PA)

FL ORANGE PARK - 8/31 0600 good over WAME's choral SSB/CBS with brief sign-on statement; FL 8145 (SF-TN)

WGR BUFPALO - 8/3 0726-0730 1200 on All News Radio (TH-BOH)

VT BURLINGTON - 8/10 0602 fair with ABC Ns, WMVT Sports, wx, old-style mx on Classic Hits WVMT (SA-ON)

GA SAVANNAH - 8/4 0600-0605+ thought it was WMAJ, which usually dominates this frequency, 0600 Bruce Williams Talk Nvet; WMAJ (JF-TOH) faintly in background (JL-PA)

ON CHATHAM - 8/9/0636-0613 1969s and 1970s ROK OLD; Solid Gold Weekend (TH-BOH)

PE CHARILOTETOWN - 8/24 strong in WGN null, POP mx with positive ID at 0435 & again at 0500 followed by Canadian mx (JL-PA)

NY WATERTOWN - 8/12 0530 good Rols 000s, WTVY ID (SA-ON)

PA VERDUN - 8/16 0015 weak, in and out of CJB2/FM with splash legal ID, mx in ID for events in Montreal, then = ID songs (DB-KE)

NY BOONEVILLE - 8/14 0710 poor with C&W mx, ads for Northern NY towns in that area (SA-ON)

IN WEST LAFAYETTE - 7/30 0349-0304 w/CLA piano solo, sign-off, poor, wantnt this for a long time (JF-TOH)

NY KINGSTON - 8/15 0630 good with local & nat mx, ads for Kingston car dealers; Newswatch 92 slogan (SA-ON)

NY LAKE PLACID - 8/15 0620 poor w/mead ROK mx, local anns (SA-ON)

FL MIAMI - 8/26 0600-0615 1st sign-on including full ID saying...serving Miami & Port Lauderdale; numerous local mentions & local ads including one for an Oldsmobile dealer (DH-AL)

ON TORONTO - 8/7 0530-0600 all olds, rock mx of the 60s & 70s (JF-TOH)

QUEBEC CITY - 8/13 0616 poor w/mead & FF ROK mx (SA-ON)

NY FLATBUSH - 8/13 0622 fair with local wx - lite EZ mx (SA-ON)

PA SUNBURY - 8/15 0640 poor with 1070 WOKF ID and mention of CJS Ns on the hour, faded away (SA-ON)

MA PITTSFIELD - 8/17 0700 poor with 1110 WLUH ID - locally-produced mx; old-style mx (SA-ON)

LA SHERREPORT - 8/18 0300-0400 with a C&W variety show for
Thought I’d just review the rules for DDXX-W. Contributions should be legible and may be submitted in any order as the computer does all the sorting. Please try to stay away from reports of the easily-heard non-DX type stuff. These from John Wood containing 650 KRXD & 1110 KRCX. These two are 1/10 & 100 Mhz max programs. ID is generally “KRXD Sacramento Roseville” KRDX & KRCX Rancho Cordova and all of Northern California.” Thanks for the update.

SPECIAL Interest

610 KJYC OR Medford
8/25 0315 Mostly strong on KFRC w/MMN AC format. Lf ads. “St asymmetric MJX-AYK” Slogans 0400 legal AM-FM ID and SSB (Whitney Houston version) 0406 full data stats at time 5 am 0800. Definitely not silent but not 24 hours (BH-WA)

740 KATK NM Carlsbad
9/6 2300 New SS w/slogan "Radio Eleganza" female DJ w/mix of Carlsbad and Mexican Pop MX (WWW-CO)

740 KSSS CO Colorado Springs
9/1 0208 "You're tuned to Colorado Springs New music station FM 99.9" Playing mostly uptempo contemporary jazz music. 9/7 1305 "Why do you listen to KVUU " promo w/Slogans "K View 99.9" So now it’s AM (BH-WA)

1230 KSBN WA Spokane
7/29 1015 definitely using BRN feed w/ "Business Radio 12-30" slogans inserted Not many local ads. Much wanted at home (EX-KRSS -BH-WA)

1260 KLYC OR McMinnville
8/29 1934 Good w/ID. Lf Nw Ns w/AC format. "Yamhill County's Daily News Source" KLYC is the correct call (BH-WA)

1370 KTMG CO Deethall
9/7 1230 Ths one was recently reported back on. Appears to be keeping a very sporadic sked Noted off again today as well as a few day during the week. (WWW-CO)

550 KMKV HI Wailuku
8/14 0040 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

670 KPUA HI Hilo 8/14 0923 Tent w/c/NW KIWA & KOHA in well at 800. (BH-C)

690 CKF1 SK Gravelock
8/5 0933 Presumed w/FF interview program w/CEXS. XTRA off. Morning program of meditative music

850 KIKI HI Honolulu
8/15 0416 Fair to good w/CWID ID "Big Island KIKI" on 600. (BH-JC)

850 KLHO HI Hilo
8/14 0918 Good w/CWID Retro Thompson DJ w/Big Island favorites from KHNL (TGH-DB)

870 KAIMT HI Honolulu
8/14 0926 Tent sk/KIWE & REL Needed for frup (TGH-DB)

930 KRCY GR Cranby
8/14 0703 Fair w/KKJH & CNN Ns & AC format (TGH-DB)

950 KSVP NM Artesia
8/14 0731 Fair thru XECL OC. Promos, ID's. PSA "Artesia's very own KSVP" Killed by XEXR soon a minute late at 1133 NM 444. (BH-TD)

955 KPRR CO Englewood-Lowell
9/1 0130 Tremendous spurs found here and on 720 Strong enough to splash on KRRS 990. (BH-WA)

1040 KLHT HI Honolulu
8/14 0916 Good w/REL Off back of E wire. (BH-TD)

1080 KORE OR Springfield
8/18 0356 Fair w/USA NA full ID w/XED. Good for 160 wts (BH-C)

1100 KUVF HI Hilo
8/14 0920 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1120 KUKE HI Hilo
8/14 0915 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1130 KPAU HI Hilo
8/14 0916 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1140 KXTN HI Hilo
8/14 0917 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1150 WYCA HI Hilo
8/14 0918 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1200 WYMP HI Hilo
8/14 0920 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1210 WYQI HI Hilo
8/14 0921 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1220 WYQI HI Hilo
8/14 0922 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1230 WYQI HI Hilo
8/14 0923 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1240 KSPU HI Hilo
8/14 0924 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)

1250 WYQI HI Hilo
8/14 0925 Fair to good w/Hawaiian Mx. 55 KMKV ID's. (TGH-DB)
530 TIS CO Bracekettleton
Noted w/ tourism loop w/ various activities in the area. No call given. (RH-CO)
530 WDX28444 WA, Moses Lake
7:28 1802 Saw a highway sign in Moses Lake to tune to 530 “Highway Advisory Radio” w/ various messages for traffic and services, Call sounded like WNE42844, which probably has one extra letter or number in it (BHI-WA)
530 WVR8425B CA, Oceanside
(823) 2216 1104 405: Possible noise at "Museum Viejo El Toro Har." (TH-CAG)
1610 TIS CO UNK
Bob 2044 Valley Loop w/ CA Agriculture Inspection Stations followed by Highway construction advisory south of inspection station. Probably in the vicinity of Dunsman. Poor signal. (JW-OR)
1610 TIS CO Malibu (7)

Contributors:
(OH-CO) John Wilkins Wheat Bread, CO - R-1000, 4257 Anguilla Loop (BHI-WA) Bill Hardy E of Spokane, WA - GE Multiband portable
(BHI-WA) Bill Hardy I-90 between Ellensburg & Spokane - Car Rx
(BHI-WA) Bill Hardy Aberdeen, WA - FRG-7, Radio West Loop
(JW-OR) Jack Woods Waldport, OR - ICF-2021, Martens Loop
(RH-CO) Rob Harrington On the I-70 Corridor, CO - Car Rx

Midday to Midnight
530 KWWO OR Eagle, 8/29/13 2013 Fair w/ WO 1150, elc 1150, into OLD “AM 630 KWWO” (JW-OR)
940 KWBW OR Woodburn, 8/29/14 Fair w/ C&B, elc 940 “Cowboy Country” (JW-OR)
1090 KQCG CA Santa Barbara
8:29 2229 Fair w/ 950, CO 950 KING w/ 950
1320 KUTR LT Salt Lake City
8/29 3255 Good w/ 950 and Mutual NA (JW-OR) UNID

1340 UNID
8/17 8035 C&W w/ calls like KCIK of KPIK Female announcer. KCEH bird earlier w/ C&W & male DJ (TH-CAG)

1390 TIS CO Georgetown
Noted w/ tape loop about Big Horn Sheep viewing area. Colorado Dv of Wildlife promo (RH-CO)

The Broadcasters’ Guide to DX
A tri-fold guide for use with reception reports explaining DXing, how the Narc was formed, and the importance of OSL’s to DXers. Various also available in Spanish and French. US$15 for 20. Available from NARC Publications.
This is a review of international loggings from Volume 58 (1990-91) of the National Radio Club’s DX News. The emphasis here is on Trans-Atlantic (TA) loggings and Trans-Pacific (TP) loggings from East Coast North America (ECNA) and West Coast North America (WCNA). Caribbean, Central America, Colombia and Venezuela loggings from ECNA are omitted, as these are relatively common. You will note that TPs from ECNA and TPs from WCNA were reported last season.

Dale Park’s Hawaii loggings are included in the WCNA list, although these references are underlined. Brian Vernon’s unique loggings from the northern end of Baffin Island in Canada’s Arctic are shown in a special Arctic North America list.

Many of the loggings submitted were shown as tentative or presumed by the original reporters, especially loggings of "hats". I have decided to include these without any special notation.

Each entry shows the frequency followed by the Volume 58 issue number that the logging appeared in. If you do not have the back-issues referenced here (with program descriptions, times, etc.), you may still make good use of this list in determining the most likely targets from your location during the coming season. A general (very general, as there are always exceptions) rule of thumb is that TAs can be heard best at your sunrise and European/African sunrise, and that TPs can be heard at your sunset.

### EAST COAST NORTH AMERICA

<table>
<thead>
<tr>
<th>Country</th>
<th>Loggings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALGERIA</td>
<td>153 (21/23), 331 (16), 891 (5/10/16/18/21/23/24/25/27/29)</td>
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<tr>
<td>ALBANIA</td>
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<td>ARGENTINA</td>
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<td>AUSTRALIA</td>
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<td>AZORES</td>
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<td>BELGIUM</td>
<td>927 (24), 1512 (23)</td>
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<td>BULGARIA</td>
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<td>CANARY IS.</td>
<td>621 (21), 637 (18/23), 882 (5/9), 1098 (5/10/16/18/21/23/24/25/27/29)</td>
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<td>CZECHOSLOVAKIA</td>
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<td>DENMARK</td>
<td>1082 (18/23)</td>
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<td>EGYPT</td>
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<td>LIBYA</td>
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<td>LUXEMBOURG</td>
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<td>MUNICH</td>
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<td>MONACO</td>
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<tr>
<td>MOROCCO</td>
<td>207 (21), 612 (23), 1044 (16/23), 1116 (23), 1325 (9)</td>
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<td>NETHERLANDS</td>
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<tr>
<td>NORWAY</td>
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### WEST COAST NORTH AMERICA

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<td>53 (11/29), 240 (9), 576 (7), 576 (29), 603 (8), 612 (29), 621 (4), 630 (10), 639 (28/29), 708 (24/29), 774 (5/24/29), 792 (29), 829 (29), 837 (20/24), 839 (29), 873 (29), 927 (29), 1008 (29), 1026 (29), 1098 (29), 1161 (22), 1204 (29), 1215 (29), 1323 (7), 1322 (9), 1413 (29), 1476 (29), 1548 (18), 1575 (29), 1620 (24/29)</td>
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<td>BAHAMAS</td>
<td>526 (24), 810 (6/26)</td>
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<td>COLOMBIA</td>
<td>770 (19), 810 (19), 890 (13)</td>
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<tr>
<td>ECUADOR</td>
<td>830 (14), 890 (6/7/9)</td>
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<td>EL SALVADOR</td>
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<td>FIJI</td>
<td>774 (2/29), 891 (24/29), 927 (29)</td>
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<tr>
<td>FR. POLYNESIA</td>
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<tr>
<td>HAWAII</td>
<td>830 (29)</td>
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<td>JAPAN</td>
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<td>MALAYSIA</td>
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<td>MARSHALL IS.</td>
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<td>PORTUGAL</td>
<td>666 (5/14/16), 783 (5/9/10/23), 1035 (5/18), 1062 (5/23)</td>
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<td>SAUDI ARABIA</td>
<td>549 (9), 1561 (5/14/16/18/29)</td>
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<td>SENEGAL</td>
<td>765 (5/9/14/16/21/23/24/29)</td>
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<td>SWEDEN</td>
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<td>SWITZERLAND</td>
<td>765 (14), 1266 (14/23/24/25)</td>
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<td>TUNISIA</td>
<td>1566 (9/14)</td>
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<tr>
<td>VATICAN</td>
<td>1530 (5/10/23/28/29), 1411 (15/10/21/22/29)</td>
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<td>YUGOSLAVIA</td>
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<tr>
<td>TP UNID</td>
<td>747 (5), 1566 (5), 1575 (5), 1593 (5)</td>
</tr>
</tbody>
</table>

### RADIO SANTA FE

1070KHz, 30Kw ONDA CORTA 4965 KHz

### RESCUE THE FUTURE
Greetings all! Per discussions with Mike and Paul, we will run this column once again in October, and everything heard by 11:59 pm local time on Saturday, September 30 will be accepted. OK, if there is some good E-skip I may let early morning October 1 slide by. A few people have mentioned extending the column further, but we are not out to overrun WTAR, and I don’t have time during school anyhow.

If you use my address from an older issue, your letter will still find me since Silver Lake is my parent’s address. ’73 for now.

Mike Hardesty, PO Box 8159, Camp Lejeune, NC 28542-8159
8.29.91 0535-0545 ETL
98.7: WLSF-FM Bridgeton- Responding (a bit late) to an earlier letter in your newspaper to tune in, I tuned in to find back on air with a routine promo of ‘The new WSFL- Eastern NC’s home of rock and roll’, and true to its promo, that’s the format. 9.2.91
96.3 WRHT-FM Morehead City / 103.7 WHITE-FM Williamston- Again, in response to a newspaper promo, tuned into the station to then simulcast with a CHR Top 40 format. No idea if they simulcast at night; WHITE’s signal is poor here during the day, and non-existent at night.

Each of these items was heard on my truck radio, and having no tuner at home, I haven’t checked further. Hope the info may be of value to someone. (Thanks for the help, Mike. NC is fairly common in E-skip season here in KS-46b)

Russ EDMUNDS, W6B2JH, 753 Valley Rd, Blue Bell, PA 19422-2052

Nissan car radio works
Poor ex since last report. Here’s what I have:
6.8.91 Trope
0700 90.5 WDUQ PA Pittsburgh- out of NPR pgm. 0700 long ID.
0750 88.1 WRGC PA Sweet Valley- w/ Biblephone pgm., with what appeared to be a religious ‘trivia’ game on WBIJ.
0800 107.9 WDYS PA Pittsburgh- w/ traffic report, then rock.
6.7.91 Trope
0735 88.7 WCID NY Friendship- starting REL pgm. w/ promo and request for calls.
1325 88.9 unID. From classic rock to current hits, we’re at WPLC, FM 88.9 here. Was stereo, but any phonetic equivalent of the call still doesn’t match up with anything at all likely. Only short tropo this day. Oto WQSU, WFRS. Have had what may have been this twice since under similar ex. 8.15.91 Trope
0700 96.7 WSTX NY Port Jervis- Promo, nx, ID, sx (1/2 - 2/3)

1754 9.29 WFQG VA Suffolk- Ad for liquidating firm, traffic and ID.
Kees EDMUNDS- on business in Macedon, GA Delco car radio and SSB. 8.28.91 Trope
0718 106.9 WMTN NC Black Mountain- w/ REL and quiz w/ phone 704-669-3477 in 107.1-WYGO slp.
0730 107.5 WYHY TN Lebanon- w/ ‘107 Radio Zoo’ pgm. w/ ID w/ KOD, ID and CST TC.
0733 102.5 WM1Y NC Hendersonville- w/ KOD, ad for store w/ various locations in western NC and SC, ID & ‘102.5’.
0746 107.7 WTVK TN Knoxville- w/ wx, TC, ID w/ local 107.9-WPEZ slp.
1925 95.7 WXRC NC Hickory- w/ KOD, ID.
1921 96.5 WDBQ TN Chattanooga-C&W ID. ‘Susie Winthrop Show’, ‘Country 96.3’.
1830 97.5 WZKJ TN Knoxville- w/ MOR- lite rock and ID, w/ WCOG.
2055 89.3 WFFJ SC Greenville- ‘His Radio’, ‘Love 99’ in promo in REL pgm.
2100 91.1 WYFG SC Gaffney- ending REL syndicated pgm. w/ ID and promo.
2105 91.7 WBTB SC Greenville- ending nx w/ ID.
8.29.91 Trope
0709 88.9 WFSQ FL Tallahassee- w/ ID, ID, tc.
0747 106.7 WJCB SC Orangeburg- w/ MOR & KOD, B-106.7 and ID.
8.30.91 Trope
0706 107.5 WKBV SC St. George- never heard actual call, but this is the station itself ‘Sunny 100’ or ‘Sunny 100’ (I heard both), w/ KOD and several local ads.
0717 103.1 WHTZ FL Tallahassee- w/ promo, M-103.1 and ID.
0728 104.1 WGLF FL Tallahassee- w/ KOD and Gulf-104, then full ID on other.

South Korea
792 (6), 1134 (6), 1566 (1/2/28)

Thailand
1575 (1/2)

Tonga
736 (1), 1017 (29)

Tuvalu
631 (1)/10)

USSR
153 (24), 189 (24), 216 (24), 243 (24), 279 (24)

Venezuela
780 (19)

Yugoslavia
113 (18)

UNID TP NTS
612 (19), 693 (19), 702 (19), 729 (19), 736 (18/21), 774 (18), 826 (19), 846 (18), 855 (18), 891 (18), 1026 (18), 1107 (18), 1494 (29)

UNID BEACON
831 (129)

Arctic North America

Alaska
720 (6)

Bangladesh
693 (10)

China
540 (5), 594 (5), 639 (6), 756 (5/7), 1035 (5), 1053 (10), 1107 (10), 1206 (7), 1215 (6), 1591 (9)

Cuba
1180 (9)

Denmark
245 (9)

Faeroe IS.
531 (9)

Greenland
900 (10)

Hungary
1180 (13)

Iceland
207 (5), 738 (9)

India
1071 (10)

Ireland
252 (9)

Iraq
1435 (16), 1445 (16), 1449 (5/6)

Iran
1431 (5), 1455 (16), 1445 (16)

Japan
500 (13), 594 (13), 666 (10), 702 (13), 747 (6), 774 (6), 826 (15/6), 1053 (13), 1278 (13), 1392 (13)

North Korea
864 (5), 999 (5)

Norway
153 (9), 216 (5)

Oman
1413 (7)

Philippines
1143 (5/9/10)

Poland
738 (5)

South Korea
558 (5), 891 (6), 1053 (13)

Svalbard
1485 (6)

Turkey
180 (13)

UAE
1314 (7)

USSR
162 (5), 171 (13), 180 (7), 198 (9), 270 (6/13), 594 (5), 612 (6), 630 (7), 639 (6), 648 (13), 666 (7), 673 (9/10), 774 (7), 783 (7), 891 (6), 1026 (6), 1053 (13), 1107 (13), 1377 (9)

UNID TP NTS
1326 (10), 1350 (10)
there is nothing more rewarding after hours of listening, getting up at 2:00 or 3:00 A.M. less than getting a QSL card in the mail from another DX'er on the air. For some reason though, QSLing today is much tougher than in years past. Many of you have noticed this trend. This article will look at how this affects the reception of signals, and the possible causes for stations not replying as much as they once did.

First, to get a verification, you need a list with station addresses. The only way to do this is to be alert, and everyone should be included. When you write your reception reports, follow these rules: the report should be well-written and easy to read. Use a pen and write neatly. Make your report legible. You need to include your signal strength, and what you think the station’s signal was, and which stations were interfering with the signal. Remember, reception reports were originally used to help the engineer in his studies. The reports would be used in the lab and later on in the field. The reports geting out, you need to include signal information. The length of the report depends on what was heard. Broadcasters usually say that 15 to 30 minutes is good, but if you say that you heard Larry King for 30 minutes, that doesn’t prove anything. Several stations could have Larry on at that time, but you wouldn’t be able to tell if it was the same. Ten minutes can be enough when you give details such as DJ's names, local commercials, complete IDs word for word, and others. Other national programs, such as TalkNet, are commonly heard by all. If your program is included in your report, mention which one. For example, TalkNet, such as Bruce Williams or the Dollen. If you hear a national news broadcast such as ABC, try to identify which ABC network it is, such as the ABC Information Net. If you do include a national program in your report, try to include other details. Reports of local news events can sometimes help. If you hear an ID with a slogan, that reported word-fax-word is good proof. An example is KLUC-1140, whose slogan is "The Number One Hit Music Station". The CE said that all it took for a verification, since they have that slogan trademarked. Music is OK to an extent, but song titles are not. Stations have other titles of popular music or songs. If the format is uncommon, such as polkas or marches, that can help.

Write something about yourself, especially if you have something in common with the station. An example would be if you know someone who works at or if you work as a radio station. You might want to mention that you ever stopped at the town where the station is located. The NRC has "The Broadcasters Used to Be a Little Booklet" on this. Some DXers send reports on a regular basis. Others may do it once a year. It all depends. The DXer would be interested in DXers who are DXers too. DX is a good thing to do, especially to smaller stations. I have done an informal study as to why stations don’t verify as often as they should. I’ve spoken with engineers and station managers about DXing. The result is a result of fewer full-time engineers at the stations, and the other person who get the reports do not get as excited about it. Another CE said that stations used to rely on mail, and occasionally some news media. I have been told that as the Internet is spreading, I have been told that the amount of reports has decreased. One said that only 80% of the reports that he receives are poor. He said that NRC, IRCA, and MYDFA members send better reports than most, but some are still missing.

Since my return rate was poor, I tried writing to other engineers to see if the return rate would improve. I found that Chief Engineers responded most with General Managers second. However, when the CE received a report, send first to the verification signer listed in DEX or the NRC Log. Most, send to the CE if the verife signer was not the CE. On the follow-up reports, I tried other engineers including the GM, PD, or even the owner. Wait at least a month between follow-up reports.

A follow-up report is just a copy of the original report. You may want to include a note saying that the original report must have been lost in the mail. Don’t imply that the station received it but didn’t get around to answering. Always be polite and considerate when sending reports. Remember that the DXer has no obligation to reply. After a number of follow-ups, if you haven’t received a reply, you may want to try a self-prepared QSL card. Provide a space on the card for the employee’s signature, and make sure it is a permanent, frequency, and the station’s call letters. The card prepared cards can be simple, or elaborate with drawings and the like. For all reception reports, include return postage. Follow-ups and prepared cards improved the return rate from 60% to 80%. Sending follow-up reports is a vital part of QSLing.

Completing and getting a verification is by sending a tape recording of what you heard. KJVB told me that they normally only verify tape recordings. Unless the written report is extremely detailed.

Read the articles in "Getting Started in Medium Wave DXing" on reception

reports if you haven’t done so. These have many good ideas from people who work at a radio station. Also, there are some reprint available in the NRC Product Catalog.

**Q**uestion: Why do stations sign on and off at different times?

**Stations** sign on/off at different times because the sun rises and sets at different times. These stations are licensed to operate in general during the hours that the sun rises and sets. The signal will not penetrate the "solar corridor", which the sun is in the upper regions of the earth. The frequency for the signal is set at the "solar corridor" frequency. You can tell approximately when stations will sign on/off using the Sunrise/Sunset map.

**Q**uestion: I hear the term "aurora conditions" a lot. What is it?

The World Book Encyclopedia dictionary defines "aurora" in part as follows:

"The aurora is a luminous atmospheric phenomenon due to the impact of streams of charged particles from the sun on the upper regions of the earth. The aurora results in the emission of light in the atmosphere and is visible to the eye."

That definition applies in part to the auroral conditions known to DXers. The same stream of charged particles that cause the northern lights creates a zone of disturbance in the ionosphere that affects the reception of signals. The stream of particles from the sun (the "solar wind") varies in intensity, the signal-absorbing zones which form near the earth's poles, vary in size. At times, in North America, the signal absorbs the auroral region to reduce the sky wave signals from northern radio stations, allowing DXers located to the south to hear southern stations which cannot usually be heard. This is the "auroral condition" for medium-wave reception. If the northern lights are not normally visible at your location, their becoming visible is a good indication of auroral conditions. Also, a prediction of a major solar flare or major geomagnetic storm is a prediction of auroral conditions. In parts of the United States, Caribbean and Central/South American stations are commonly heard during auroral conditions.

Mike and Jack
Detune the signal slightly to one side (about half the 301 range), slowly adjust R1 and the loop tuning until a dip is found. Keeping the loop antenna on the same side of loop tuning peak). If no dip is found, detune the loop to the other side of the peak, and repeat the procedure. When a dip is found, make the dip as deep as possible using R1 and the loop tuning (there is some interaction between controls). Finally, use the LIL-3 tuning capacitor C to make the dip deeper. The effect of C is quite subtle. As C is tuned away from minimum capacitance there will normally be little effect on the dip. However, at some point the dip will suddenly become much less deep (almost null) and increase sharply. The deepest dip (null) will occur just before this point. If you are not observant, you will not notice any change in dip depth.

After the correct initial setting of C is found, adjust R1, loop tuning, and C for the deepest possible dip. Finally, rotate the loop through 180 degrees to verify that there is a cardioid pattern. If not, go through the adjustment sequence again. With practice, it will become easier to generate the cardioid pattern. For nighttime signals the dip null will often be readjusted by time to time. If the loop has a phase shift, the null will become the true null. The dip null will move in sympathy with a signal from one path to another, and may be as short as a few seconds to as long as 30 minutes. Lower frequency signals tend to have better loop sensitivity.

To generate deep loop cardioid patterns, follow the same procedure above, but it may be necessary to start with C at some fraction of capacitance other than minimum capacitance. If minimum capacitance cannot be attained, then try 10% capacitance, and if that does not work, then try 5% capacitance, and so on.

Sometimes a deep null cannot be obtained with the loop rotated through 180 degrees. A phase reversing switch could be added to solve this problem, but it is easier to rotate the loop.

There is no LIL-2 because LIL-2 was identical to LIL-3 except for the parallel LC tuned circuit. LIL-2 actually worked quite well, except that null depths were not quite as deep as I expected based on experience with LIL-2. Thus, I added the parallel LC tuned circuit to have independent control over phase shift. Since the loop tuning and R1 alone can generate quite good nulls, the effect of the tuning capacitor C is quite subtle. You might wish to build LIL-1 first (by omitting C and L1 and L2) to gain some experience with a simpler (but not quite as good) phasing circuit.

Facts About NRC’s DX Audio Service

The DX Audio Service provided the OLY monthly broadcast news cassette service to the DX community. Available to anyone anywhere, it is designed to inform the radio listener in an interesting and informative manner. Many of the announcers on the service are professional broadcasters giving their free time to give the listener the finest service available.

DXAS was started to provide broadcast information, both AM and FM, to the visually-handicapped DX listener. It has evolved into a service which provides useful material to all types of listeners. Many subscribers listen to the tape to and from their place of work while driving.

One-year subscription, subscriber keeps the cassette each month $2.50. Sample copy and back issues of DXAS: $3.

Cassettes are mailed by First Class mail, on or about the 20th of the month. For information, subscriptions, renewals, sample copies write to NRC DX Audio Service - P.O. Box 24 - Cambridge, WI 53523-0024. For back issues: NRC Publications.
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